

December 17, 2008

**ADDENDUM NO. 4**

**FOR THE CONSTRUCTION OF THE  
AUXILIARY CHILLED WATER SYSTEM FOR  
NETWORK OPERATIONS CENTER (NOC) AT CITY HALL**

**Notice is hereby given that the following revisions, additions, and/or deletions are hereby made a part of and incorporated into the plans and specifications for the Auxiliary Chilled Water System for NOC at City Hall**

CHANGES TO PROJECT MANUAL – BIDDING DOCUMENTS

CLARIFICATION

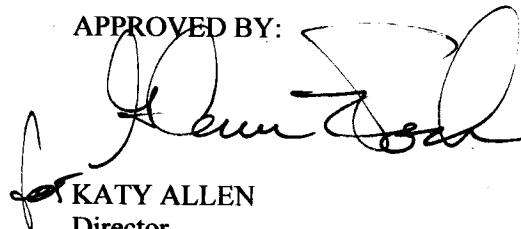
CHANGES TO PROJECT MANUAL – TECHNICAL SPECIFICATIONS

CHANGES TO PROJECT MANUAL – CONSTRUCTION DOCUMENTS

**INSTRUCTIONS**

The bidder must sign this addendum in the space provided below and return one signed copy with the bid. **Failure to return the signed copy with bid documents shall not relieve the bidder of the obligation to include this addendum to the bid proposal. Bidder's failure to sign and submit any or all addenda with the bid shall be cause for rejection of the bid.**

APPROVED BY:



KATY ALLEN

Director

Public Works Department

Bidder's Name \_\_\_\_\_

Signature and Title of Bidder

KJ:lm:ls

Date

December 17, 2008

## **ADDENDUM NO. 4**

### **FOR THE CONSTRUCTION OF THE AUXILIARY CHILLED WATER SYSTEM FOR NETWORK OPERATIONS CENTER (NOC) AT CITY HALL**

Notice is hereby given that the following revisions, additions, and/or deletions are hereby made a part of and incorporated into the plans and specifications for the Auxiliary Chilled Water System for NOC at City Hall.

#### **CHANGES TO PROJECT MANUAL – BIDDING DOCUMENTS**

1. Notice to Prospective Bidders – Replace with attachment.
  - A. **Bid Open** will be **Tuesday, December 23 at 3:00pm**
2. Notice to Contractors– Replace with attachment.
  - 1) Filing of Bids: All proposals must be filed with the City Clerk of the City of San Jose, City Hall, 200 East Santa Clara Street, Wing Second Floor, San Jose, CA 95113, on **or before 3:00 PM, Tuesday, December 23, 2008**

#### **CLARIFICATION:**

**Per Page 1A of 3 of the Proposal to City of San Jose that is part of the Project Manual, there are no Bid Alternates for this project.**

#### **CHANGES TO PROJECT MANUAL – TECHNICAL SPECIFICATIONS**

1. SECTION 01210
  - A. **Delete:** Section 1.02 C-1 in its entirety.
  - B. **Add:** Section 1.02 C-1: Contractor shall exclude for all the work separated as “Prefatory Work” including piping, valves, instruments and insulation to make pipe connections between the (E) chilled water distribution and the new emergency chilled water system. This work will be completed by the City prior to commencing this project.
  - C. **Delete:** Section 1.02 D-1 in its entirety.
  - D. **Delete:** Section 1.12 Quality Control in its entirety.
  - E. **Add:** PART 4 – MEASUREMENT AND PAYMENT
    - 4.1 GENERAL

A. Separate measurement or payment will not be made for work required under this Section. All costs in connection with the work specified herein will be considered to be included with the related item of work in the Schedule of Values, incorporated into the General Conditions or incidental to the Work of this Contract.

**2. SECTION 01900**

A. **Add:** PART 4 – MEASUREMENT AND PAYMENT

4.1 GENERAL

A. Separate measurement or payment will not be made for work required under this Section. All costs in connection with the work specified herein will be considered to be included with the related item of work in the Schedule of Values, incorporated into the General Conditions or incidental to the Work of this Contract

**CHANGES TO PROJECT MANUAL – CONSTRUCTION DRAWINGS**

**1. SHEET G- 0.3**

A. **Add:** New Drawings of Level 3, NOC Area Plan

**QUESTIONS AND ANSWERS:**

1Q. Per Addendum#2, we need to contact you for the permit for the 4<sup>th</sup> street lane closure. Do we need to pay for this permit?

1A. No.

**AUXILLIARY CHILLED WATER SYSTEM  
AT NETWORK OPERATIONS CENTER  
SAN JOSE CITY HALL**

**BID DOCUMENTS**

**BID OPENING**

**3:00 P.M.**

**Tuesday, December 23, 2008**

**Bidder:** \_\_\_\_\_

December 17, 2008

NOTICE TO PROSPECTIVE BIDDERS FOR THE  
**AUXILLIARY CHILLED WATER SYSTEM AT NETWORK  
OPERATIONS CENTER - SAN JOSE CITY HALL**

There is a **NON-MANDATORY** Pre-Bid meeting for this project on **Monday, November 24, 2008, at 10:00 AM**, at the project site located at San Jose City Hall - 200 East Santa Clara Street. Tower - 5<sup>th</sup> floor – conference room #537, San Jose, CA. All Prospective General Contractors/Bidders **are encouraged to attend**. The purpose for this meeting is for the bidders to ascertain existing conditions and familiarize themselves with the project requirements, i.e. pertaining to the bidding procedures, plans, specifications, etc.

**Bid Opening** for this project will be **Tuesday, December 23, 2008 at 3:00 PM**, at the City Clerk Office the City of San José, City Hall, 200 E. Santa Clara Street, Wing 2<sup>nd</sup> Floor, San Jose, CA 95113.

If there are any questions, send them in written format by **email or fax** by Wednesday, December 10, 2008, 12:00 Noon to City of San José, DPW, CFAS Division, Attn. Lili Matthews, ([lilimatthewes@sanjoseca.gov](mailto:lilimatthewes@sanjoseca.gov)), Fax: (408) 292-6288

Tentative date of issuance for Addenda and/or Clarifications (if necessary) will be on or before **December 15, 2008**.

If any other questions, please call me at 408-535-8398 or email at ([lilimatthewes@sanjoseca.gov](mailto:lilimatthewes@sanjoseca.gov)).

Thank you,

Lili E. Matthews  
Project Manager  
City Facilities Architectural Services Division

PM/lm

Project Manager: Lili Matthews

Telephone: (408) 535-8398

Internet Bid Line: <https://cpms.sanjoseca.gov/pub/BidHotline>

**Plans can be purchased at:**

San Jose Blue: [www.sjblue.com](http://www.sjblue.com)

Phone: (408) 295-5770

## **NOTICE TO CONTRACTORS**

Sealed written proposals are invited by the CITY OF SAN JOSE for:

### **AUXILLIARY CHILLED WATER SYSTEM AT NETWORK OPERATIONS CENTER SAN JOSE CITY HALL**

In accordance with and as described and provided in the Plans and Specifications thereof and the proposed form of contract thereof, all of which are on file in the office of the Director of Public Works and the City Clerk of the City, and which are made a part hereof.

#### **PLANS AND SPECIFICATIONS**

Plans and Specifications may be purchased via the Internet at [www.sanjoseblue.com](http://www.sanjoseblue.com) or by calling San Jose Blue at (408) 295-5770. There will be a non-refundable charge of Forty Dollars (\$40) per set. Checks are to be made to San Jose Blue. There is a limit of one (1) set per Contractor at this price. Plans, Specifications and Plan Holder's list may be viewed at the same Internet site.

Bidders requesting that sets be mailed to them will be charged the full cost of shipping. Additional full or partial sets can be purchased for the full cost of reproduction from the location listed above. Addenda, if any, will be provided free of charge to all registered plan holders.

Bidders will have fully inspected the project site in all particulars and become thoroughly familiar with the terms and conditions of the Plans, Specifications and other contract documents and local conditions affecting the performance and/or costs of the work prior to submitting their bid proposal.

There is a **Non-Mandatory** pre-bid meeting for this project on **Monday, November 24, 2008, at 10:00 AM**, at the project site located at San Jose City Hall - 200 East Santa Clara Street. Tower - 5<sup>th</sup> floor – conference room #537, San Jose, CA. All Prospective General Contractor/Bidders are encouraged to attend. The purpose for this meeting is for the bidders to ascertain existing condition and familiarize themselves with the project requirements, i.e. pertaining to the bidding procedures, plans, specifications, etc.

#### **FILING OF BIDS**

All proposals must be filed with the City Clerk of the City of San Jose, City Hall, 200 E. Santa Clara St., Wing, 2nd Floor, San Jose, CA 95113, **on or before 3:00 p.m. Tuesday, December 23, 2008** as set forth in the specifications. The City Clerk will publicly open and declare the aggregate bid of each bidder, at his/her office at 3:00 p.m.

Each bid must be accompanied by cash, a certified check, a cashier's check or a bidder's bond in the sum of not less than 10% of the total aggregate of the bid including all add alternates. Checks shall

be made payable to the order of the City of San Jose. Bonds shall be executed by a surety possessing a valid certificate of authority issued by the California Department of Insurance and shall name the City of San Jose as beneficiary. All bids must be addressed to the City Clerk, City of San Jose and shall bear the title or name of the work to be constructed.

### **DEPOSIT OF SECURITIES IN LIEU OF RETENTION**

Pursuant to the terms and conditions set forth in Public Contracts Code Section 22300, the contractor may substitute certain securities for any money withheld by City as retention to ensure contractor's performance under the contract. Such substitution of securities in lieu of retention shall be at the contractor's request and at contractor's sole expense. The securities shall be in an amount equivalent to the retention to be released.

### **PREVAILING WAGES**

Attention is called to the fact that not less than the general prevailing rate of per diem wages and the general prevailing rates for holiday and overtime work must be paid on this project. Copies of the prevailing rate of per diem wages are on file with the Office of the City Clerk or the Office of Equality Assurance and can be obtained by interested bidders from those offices. All questions regarding prevailing wage should be directed to the Office of Equality Assurance at (408) 535-8430.

### **CONTRACTOR'S LICENSE REQUIREMENTS**

All prospective bidders are hereby cautioned that the Contractor's State License Law regulates contractor licensing matters. The Contractor, in its bid proposal, shall be required to disclose its license type, number, and expiration date.

Bidders must have a California contractor's license, classification   B   to bid this project.

### **NONDISCRIMINATION/NONPREFERENTIAL TREATMENT**

The Nondiscrimination/Nonpreferential Treatment requirements of Chapter 4.08 of the San Jose Municipal Code apply to this project.

### **BOND REQUIREMENTS**

Bidder's attention is directed to those provisions of the Specifications which require the contractor to whom the contract for the work is awarded, to file with the City Clerk at the time the contract is executed, a Contractor's Payment Bond and a Bond for Faithful Performance meeting all the requirements of the Specifications and approved by the City Attorney of the City of San Jose. Bonds shall be executed by a surety possessing a valid certificate of authority issued by the California Department of Insurance and shall name the City of San Jose as beneficiary. The Contractor's Faithful Performance Bond shall be for 100% of the contract price. The Contractor's Payment Bond shall be for 100% of the contract price.

**By order of the Council of the City of San Jose.**

DATED: \_\_\_\_\_

CITY OF SAN JOSE  
A Municipal Corporation of the State of California

By \_\_\_\_\_  
CITY CLERK

**SECTION 01210**

**SPECIAL REQUIREMENTS**

**PART 1 - GENERAL**

**1.01 LOCATION OF WORK**

- A. The work shall be performed at the City of San Jose Civic Center Building San Jose, California.

**1.02 WORK INCLUDED**

- A. The work shall include furnishing of labor, materials, supplies, equipment, services, supervision, and transportation as required for construction procurement of equipment, and field testing of the facility. The complete work shall be performed as shown on the drawings and specified in the Specifications.
- B. The work consist of the architectural, mechanical, electrical, and structural improvements for installation of an emergency chilled water system for the Civic Center Data Center including:
  - 1. The construction of a roof screen to conceal the new mechanical equipment.
  - 2. Furnishing and installing new air cooled chiller and ancillary equipment including piping supports insulation, and instrumentation.
  - 3. Building a new outdoor equipment pad, for the new chilled water equipment.
  - 4. Electrical work includes power distribution for the new chilled water equipment
  - 5. Controls work includes connection to (E) building automation system and providing new controls for all new mechanical equipment .
- C. Work Excluded:
  - 1. **Contractor shall exclude for all the work separated as "Prefatory Work" including piping, valves, instruments and insulation to make pipe connections between the (E) chilled water distribution and the new emergency chilled water system. This work will be completed by the City prior to commencing this project.**



~~1. Contractor shall exclude for all the work separated as "Bid Alternate" including piping, valves, instruments and insulation to make pipe connections between the (E) chilled water distribution and the new emergency chilled water system. This work will be completed by the City prior to commencing.~~

~~D. Bid Alternate:~~

~~1. Contractor shall include the Honeywell BAS System in the Base Bid.~~

~~2. Contractor shall include a Trane Tracer System as alternate.~~

~~3. The City will select the base or alternate system.~~

### 1.03 CITY PROPERTY - MATERIALS TO BE REMOVED

- A. No materials shall be removed from the site except Contractor's construction and demolition materials, soil spoils and other materials specifically listed herein.
- B. Unless otherwise stated herein, City property to be removed from the job shall remain with City jurisdiction. Such material shall be disposed of as directed by the Project Manager.

### 1.04 ALTERATIONS IN EXISTING FACILITIES:

When altering existing facilities, the Contractor shall take every precaution to preserve and protect existing facilities, both those to be altered and those to remain unaltered that are within the limits of the work.

- A. The Contractor shall notify the Project Manager at once of structural members, piping, conduit, or equipment not indicated for removal that may cause interference with the work. Work shall not proceed in the affected area until instructions have been issued. Do not drill or penetrate existing structures without prior permission.
- B. The removal of existing work shall be by methods that will not jeopardize the integrity of structures or systems that are to remain.

### 1.05 SHUTDOWN

- A. Shutting down of any utilities that would interrupt the operation of the City Hall Network Operation Center (NOC) will not be permitted. Partial shutdown of building utilities and systems not effecting the NOC operation will be permitted as follow.

- B. Shutting down of active utilities, building energy distribution and delivery systems, rotating equipment, pneumatic controls, actuators and supply systems, heating ventilation and air conditioning systems and controls, lighting and power distribution systems, natural gas distribution systems and utilization equipment, fire alarm systems, communications and data distribution systems, intrusion alarm systems, Energy Monitoring and Control Systems (EMCS), elevators, roads, or portions of other services shall be performed only as scheduled in coordination with and with the expressed permission of the City Project Manager. All disruptions to utilities will be scheduled during City's minimum work shift hours, i.e. 12:02 a.m on Saturday to 6:00 a.m. on Monday, unless specifically authorized otherwise. The Contractor shall provide temporary utility service and baypasses for any disruptions not completed within this period.
- C. Shutdown schedules and an activity work plan for utilities shall be submitted to the City Project Manager for approval at least two weeks before the date of the desired work.
- D. Prior to the shutdown of utilities or building energy system(s), the Contractor and the Project Manager or designated representative(s) shall visit the site. At that time, the Contractor shall present its work plan for the shutdown to the Project Manager or designated representative(s). The work plan shall include his analysis of any affect on the utility or building energy system(s) and the estimated duration of the shutdown. If the shutdown involves the interface with, or modification of, existing building energy system(s), the Contractor shall be required to show the reviewed submittal and shop drawings of the proposed modifications.
- E. Shutdown schedules shall have been reviewed and approved by the City Project Manager at least 72 hours prior to date of shutdown. Postponement by the City of scheduled shutdowns shall not constitute a basis for additional charges to the City.
- F. Prior to the shutdown of any building energy system(s) the Contractor shall provide the following:
1. Proof of receipt of all materials required for the shutdown or a written commitment from the responsible suppliers that the required materials will be available at the time of the shutdown.
  2. A list of the qualified Contractor personnel assigned to perform the work.
  3. A twenty-four-hour emergency call-back phone number to be used by the City in the event of any problems or concerns with the modifications made to the building system(s) after the Contractor has left the site.

- G. The shutdown of existing active electrical and mechanical systems will be performed by the City in coordination with Contractor and restarted by the City upon completion of Contractor's work.
- H. The startup of electrical and mechanical utility systems constructed by Contractor shall be performed by Contractor in coordination with the City.
- I. The contractor will minimize impact to City Operations for specific tasks, such as opening the ceiling above occupant cubicles, or X-raying the floor in preparation of the core drilling operations. Disruptions to specific occupants needs to be coordinated and scheduled in accordance with this section. Contractor is responsible for protecting and cleaning all areas from debris and returning the space to its previous condition within the specified timeframe.

#### 1.06 DRAWINGS AND SPECIFICATIONS

- A. **Standard Specifications:** Standard Specifications such as ANSI, AASHTO, AWWA, AISC, Commercial Standards, Federal Specifications, NEMA, UL, and the like incorporated in the requirements by reference shall be those of the latest edition at time of receiving bids, unless otherwise specified.

The manufacturers, producers and their agents of required materials shall have such specifications available for reference and are fully familiar with their requirements as pertains to their product or material.

- B. **Contract Drawings and Specifications on the Job:** Contract drawings shall be kept on the job by the Contractor shall include at least one copy of Drawings and Specifications, all approved shop and erection drawings and schedules, lists of materials and equipment, as-built drawings, addenda and bulletins, documents relevant to the work. The list of Contract drawings is attached to these Specifications

#### 1.07 PROJECT MEETINGS

- A. During construction, weekly project meetings may be held at the discretion of the Project Manager. The minutes of these meetings will be prepared by the Project Manager and one copy issued as expeditiously as possible to the Contractor. The Contractor will submit, in writing, questions and/or answers (previously obtained verbally) to be confirmed at each meeting.

#### 1.08 COORDINATION

- A. **Responsibility:** The Contractor shall coordinate the work of all crafts. Any work done without regard for other crafts and which results in an incomplete and deficient product shall be removed, replaced, or redone as required at no additional cost to the City.

- B. Field Checking: Before starting the job, the Contractor shall check all lines, levels, and dimensions shown on the Drawings against field conditions. If discrepancies appear, they shall be reported to the Project Manager at once. In the event of discrepancies, the work shall not proceed until instructions from the Project Manager have been received.

**1.09 LAYING OUT AND MEASURING - ACCURACY OF DATA**

- A. Verification of Site Measurements: In addition to verifying at the site all measurements shown on the Drawings, Contractor shall consult the Drawings and Specifications of related work or existing construction that may in any manner affect the work of this Contract.

- B. Reporting: Contractor shall promptly report to the Project Manager, in writing, any errors, omissions, violations, or inconsistencies that may be discovered as a result of such verifications; otherwise, it shall be understood that Contractor accepts all such related data and conditions without reservations.
- C. Interferences: Layout of existing piping, conduits, and locations of equipment are shown as exactly as could be determined during design of the facilities; but their accuracy, particularly when such layouts and drawings are schematic, cannot be guaranteed.
- D. Contractor shall check all Specifications including the Drawings for possible interference with electrical, mechanical, and structural details, as well as interference with existing building or equipment, and shall notify the Project Manager of the interference for resolution of the interference before commencing work. Any completed work that interferes shall be corrected by Contractor at Contractor expense so that the original design can be followed.

#### 1.10 STORAGE

- A. The Contractor may store materials only in areas as designated by the Project Manager. The Contractor is responsible for security of the materials. Construction materials shall be kept in an orderly manner, safely and neatly stacked or piled. Materials shall be stored in a manner so as not to endanger or overload structures.

#### 1.11 DELIVERY

- A. Materials and equipment shall be delivered to the site in adequate time to ensure uninterrupted progress of the work. Packaged materials and equipment shall be delivered to the site in original, undamaged containers bearing manufacturer's name, with seals unbroken. Materials or equipment which do not conform to the Specifications or are damaged shall not be incorporated in the work and shall be immediately removed from the site. All materials delivered to the site shall be considered part of the work and, except for surplus materials, shall not be removed from the site at the completion of the work.

#### ~~1.12 QUALITY CONTROL~~

- ~~A. The Contractor shall be fully responsible for inspecting the work of its suppliers, and Sub-Contractors to assure that the work complies with the standards for materials and workmanship required by the Contract Documents. Inspections, periodic observations and testing performed by the City or the Architect-Engineer are for the City's benefit and information only and shall not be construed as partial or incremental acceptance of~~

~~the work and shall not be deemed to establish any duty to the Contractor, its Sub-Contractors or suppliers.~~

~~B. The Contractor shall:~~

- ~~1. Monitor quality control over Sub-Contractors, suppliers, manufacturers, products, services, site conditions, and workmanship, to produce work of the quality specified in the Contract documents.~~
- ~~2. Comply fully with manufacturer's instructions, including each step in sequence.~~
- ~~3. Request clarification from City Project Manager before proceeding with work when manufacturers' instructions or reference standards conflict with Contract Documents.~~
- ~~4. Comply with specified standards as a minimum quality for the work except when more stringent tolerances, codes, or manufactures instructions require more precise workmanship.~~
- ~~5. Ensure that work is performed by persons specializing in the specific trade and class of work required, and qualified to produce workmanship of specified quality. All persons to have a background check and fingerprints taken by the City of San Jose in order to be authorized to work in the confines of the Public Safety Building.~~
- ~~6. Secure products in place with positive anchorage devices designed and sized to withstand seismic, static and dynamic loading, vibration, physical distortion or disfigurement.~~

~~C. If reference standards or manufacturers' instructions contain provisions that would alter or are at variance with relationships between the parties to the Contract set forth in the Contract Documents, the provisions in the Contract Documents shall take precedence.~~

~~D. Manufacturers' Field Inspection or Start-up~~

~~When required by individual Specification sections, Contractor shall provide the following services from a manufacturer's representative.~~

- ~~1. Review of Specifications and design and concurrence or suggestions for modification.~~
- ~~2. Site observation of conditions of use and substrate.~~
- ~~3. Observation of the installation work in progress and on completion.~~
- ~~4. Start up, testing, and adjustment of equipment.~~

- ~~5. Instruction of City in operation and maintenance. Provide written signed report by manufacturer's representative documenting services provided and any comments or recommendations.~~

## 1.12 INSPECTIONS

- A. The work will be inspected by City inspectors and/or independent inspection service personnel under coordination of the Project Manager.
- B. All work is subject to inspection and shall remain accessible and exposed until it has been inspected by the City. Any work covered up or made inaccessible before such inspection shall be uncovered and made accessible without additional expense to the City.
- C. Inspection or testing performed by the City or the Architect-Engineer or any of their employees or consultants shall not (1) relieve the Contractor from responsibility for performing his own quality control and for complying with the requirements of the Contract Documents and (2) shall not create a duty or responsibility of the City or Architect/ Engineer to the Contractor, any tier of Sub-Contractors, material and equipment suppliers, their agents, employees or other persons performing portions of the work.

The City or the Architect-Engineer will not be responsible for the Contractor's failure to carry out work in accordance with the Contract Documents.

## PART 2 - PRODUCTS

### 2.01 SUSPECT/COUNTERFEIT PARTS

- A. All fasteners will be new and furnished exactly as specified and shall be manufactured in, and made of material from, the United States. No higher grade of fastener shall be substituted for a lower grade. Certification and material test reports shall be furnished for each fastener size and shall include a description, size, specification, head marking, date, manufacturer's lot number, manufacturer's name, steel origin, steel heat number, and plating specification/type. The mechanical properties shall include the wedge tensile strength, the proof stress load, the surface hardness and the core hardness along with the hardness data per the particular bolt specification. The steel chemistry shall also be included in the test report. Fasteners supplied shall not have head markings that are on the U.S. Customs Service List of suspect/counterfeit fasteners. Failure to meet a receipt verification test will be cause for rejection of a shipment and the Office of the Inspector General of the U.S. Department of Energy may be notified for possible investigation of the Seller.

- B. Seller certifies that equipment and supplies furnished under the Contract is free from the use of suspect/counterfeit fasteners as listed on the attached U.S. Customs Service List of suspect/counterfeit fasteners.
- C. Failure to meet this criterion as disclosed by the City's receipt verification process will be cause for rejection of a shipment.

### **PART 3 - EXECUTION**

#### **3.01 SCHEDULE AND SEQUENCE OF CONSTRUCTION**

- A. The City Hall Network Operation Center is considered a critical facility, and has a several independent operational groups within the building which can not have any disruption to their operations. The building is operational 24 hours a day, 365 days a year, therefore shutdowns of major utilities (water, sewer, electrical) will be not be allowed The City of San Jose Project Manager will schedule and special shut down for the piping work required to connect the new emergency chilled water system to the (E) chilled water distribution.
- B. The proposed sequence of construction detailed herein is for reference only. The Contractor is responsible for submitting to the City Project Manager an accurate detailed schedule and matching sequence of construction with tasks, dates of start and completion of construction, any required shutdowns and duration of shutdown of any utilities that will not shut down the City Hall Network Operation Center. This proposed schedule and sequence is the responsibility of the Contractor to provide a complete and workable solution.
  - 1. The sequence presented in this document is for reference only, and shall be modified by the contractor and coordinated with the written specifications as needed to address the site requirements. The Contractor must also be aware of the current weather season and must anticipate and adjust the sequence of construction and schedule of construction accordingly.
  - 2. Contractor shall prepare all outside work first, including developing the concrete work and structural steel platform, and installation of chiller plant, exterior chilled water piping, and connecting electrical service.
  - 3. Contractor's first priority shall be to maintain uninterruptible power and cooling to the City Hall Network Operations Center at all times and during construction.
  - 4. The control system shall be fully compatible with the existing building automation system (Honeywell) and shall include stand alone controllers and connections to the building EMS.



5. After the mechanical equipment installation is complete the contractor shall build a roof screen to match existing.
6. Roofing contractor shall begin work only after all other disciplines have complete their work. Precast concrete paver shall be installed in heavy traffic areas to protect the roof.
7. Contractor shall commission all systems, provide adequate training and documentation to all City of San Jose Facilities personnel on the operation and maintenance of the newly installed systems, and address all punch list items and City of San Jose project closeout requirements.

3.02 SAFEGUARDS - EXISTING EQUIPMENT, UNDERGROUND UTILITIES AND ARTIFACTS

- A. Existing utilities, including those listed as abandoned, shall not be moved or otherwise disturbed without written verification by the City of San Jose Operations and Maintenance group that the utility is abandoned. Damage caused by the Contractor to existing utilities, buildings including roof drainage systems, underground cables, ducts, roadways, manholes and equipment, fire alarm, public address or telecommunications wiring will be repaired at the Contractor's expense, and the City will decide whether repairs will be performed by the Contractor or the City. Existing utilities, including but not limited to building fire alarm, public address or telecommunications wiring shall not be moved or otherwise disturbed, nor electrical circuits or switches operated or taken in or out of service, without prior consent of the Project Manager. Loss to the City resulting from damage to utilities shall be compensated by the Contractor.
- B. In compliance with Advisory Council on Historic Preservation regulations, if bones or artifacts are encountered during digging, the City requires that the Contractor stop work in the immediate vicinity and continue only with approval from the Project Manager.
- C. Buried non-metallic utilities (electrical, mechanical, and civil) shall receive a tracer wire.
  1. The tracer wire shall be installed on top of the buried utility crown.
  2. The tracer wire shall be positively attached to the non-metallic buried utilities by plastic wire ties of similar type of attachment every two (2) meters for straight run of utility and at all changes of direction.
  3. The ends of the tracer wire shall be exposed above the finished grade.

4. Install precast concrete boxes at all locations where the ends of the tracer wire are exposed above the finished grade.
5. The precast concrete boxes shall not be more than ninety (90) meters apart and shall contain a sixty (60) centimeter coil of wire from each end of the tracer wire.
6. Tracer wire shall be continuous between boxes and shall be tested for continuity in the presence of City's inspector.
7. Tracer wire shall be No. 10 AWG, copper wire with TW insulation.
8. Tracer wire shall be exposed above finished grade in the precast concrete boxes at the transition where the non-metallic buried utility connects to the existing metallic utility.

D. Backfilling

1. Before backfilling, the Project Manager shall be notified so that the City surveyor can obtain the three dimensional coordinates of all buried utilities. Buried utilities shall not be covered with backfill without the prior approval of the City inspectors.
2. Identification tape shall be installed thirty (30) centimeters above the buried utility crown. The identification tape shall be continuous for the entire length of utility. Before backfilling for buried utilities over identification tape, the City construction inspector will verify that identification tape has been installed.

3.03 TEMPORARY CONSTRUCTION

- A. Temporary construction shall conform to all requirements and laws of state and local authorities which pertain to operation, safety, and fire hazards: specifically to requirements noted in Section 01010, General Provisions, Paragraph 1.03 - Codes. Contractor shall furnish and install all items necessary for conformance with such requirements, whether called for under separate sections of these Specifications or not. Contractor shall provide, maintain, and remove upon completion of his work:
1. Temporary crossovers and bypass to utilities, electrical connections, traffic and footbridges, and walkways used to maintain services or communications which cannot be interrupted or curtailed.
  2. Temporary rigging, scaffolding, shoring, hoisting equipment, and all other temporary work as required for this project.

3. Temporary barricades around openings and excavations for this project.
- B. Project Sign: Contractor shall furnish and install signs, located as directed by the Project Manager. The signs shall be readily legible to the general public, Contractors, material men, and truck drivers approaching the site and shall include the following information:
1. Project.
  2. Contract No.
  3. Contractor Name.
  4. Designed By: Architect/Engineer Name.
- C. Access to Buildings: Contractor shall keep access to existing buildings clear at all times.

### 3.04 TEMPORARY FACILITIES

- A. Temporary office: Contractor shall provide, maintain and remove a field office upon completion of work. The temporary office shall include a telephone and drawing reference table for use by the Contractor and the Project Manager and have adequate equipment for document files and space for job meetings.
- B. Toilet Facilities: Contractor will be required to furnish toilet facilities. Approved chemical toilets or enclosures may be used, provided they are kept clean at all times.
- C. Water and Power: Temporary water service and electrical power will be available at locations as close as possible to the work site. Extensions for the Contractor's use shall be made by the Contractor. No charge will be made for these services provided they are not wasted. Available power is three-phase 208V/120V (maximum of 20kVA).
1. All temporary wiring and electrical installations shall be in accordance with provisions of the Electrical Safety Orders of the State of California and applicable codes.
  2. Any power outage occasioned by tying into the existing electrical system for temporary or permanent use shall be coordinated with the Project Manager (refer to Paragraph 1.05, SHUTDOWN).
  3. The City does not guarantee the quantities or quality of power or water available for Contractor's use, nor will it be responsible in any manner for interruptions in service or for the effects of interruptions.

- D. Lighting: Temporary lighting, if necessary during the period of construction, shall be supplied and maintained by the Contractor at Contractor expense so that construction work can be safely performed.
- E. Telephone Service: For service to a Contractor trailer, the Contractor must do the following:
  - 1. Contact AT&T and direct them to provide the desired service to the Project Site.
  - 2. Provide the following information:
    - a. A Sketch that shows the Contractor's field office location relative to the City of San Jose Civic Center Building and the location of facilities required within the field office.
    - b. The name and phone number of a responsible person that Telephone Services may contact to resolve any installation or operational questions.
    - c. The Purchase Order Number or Contract Number that authorizes work at City of San Jose.
    - d. The estimated time that facility will be required at this location.
    - e. The date service is required.
    - f. The AT&T (1) order number, (2) due date, and (3) contact.

### 3.05 CPM NETWORK DIAGRAM

- A. A critical path movement (CPM) network diagram is required of the Contractor by the City. When required, the CPM schedule shall conform to Section 01010, General Provisions, Paragraph 1.08 C - Schedule of Operations.

### 3.06 CLEANING

- A. During construction periods
  - 1. At weekly intervals, or as directed by Project Manager, Contractor shall clean the project site of all scrap, surplus materials, rubbish, and debris, and remove same from City property.
  - 2. Dust generated during the course of work must be controlled by appropriate means.

3. Spillage over driveways and City roads caused by Hauling operations shall be removed immediately at Contractor's expense.
- B. Prior to Final Acceptance: Clean up the entire construction area and adjacent building(s) and site area(s) affected by the performance of work under this Contract. Clean-up work shall be done by personnel skilled in building cleaning and maintenance work, and shall be done according to standards considered normal for commercial janitorial work.

### 3.07 OPERATION TEST

- A. Prior to acceptance, all elements of operating equipment, including those of mechanical nature and those that slide, swing, turn, or are intended to move in any way and those of an electrical nature, shall be given an operating test to assure to the satisfaction of the Project Manager that such equipment operates as required. Contractor shall make all adjustments, replacements, and such other modifications as needed. If it is necessary to run equipment in order to complete the work, for periods that exceed the manufacturer's recommended maintenance interval, the Contractor will provide such required maintenance at no additional cost to the City.

## PART 4 – MEASUREMENT AND PAYMENT

### 4.1 GENERAL

- A. **Separate measurement or payment will not be made for work required under this Section. All costs in connection with the work specified herein will be considered to be included with the related item of work in the Schedule of Values, incorporated into the General Conditions or incidental to the Work of this Contract.**

**END OF SECTION 01210**

## SECTION 01900

### LATERAL FORCE ANCHORAGE PROVISIONS

#### PART 1 - GENERAL

##### 1.1 WORK INCLUDED

- A. This section specifies the criteria for the design and installation of lateral force anchorage for all non-structural components of the project including walls, cladding and mechanical and electrical equipment. It is the City's intention that all non-structural components as identified in Table 16-O of the CBC and any programmatic equipment installed under this Contract shall be restrained to resist lateral forces in accordance with the requirements of this section. This section applies to all facilities at the City of San Jose.

##### 1.2 REFERENCES

- A. California Building Code (CBC) 2007, latest as adopted by the Building Standards Commission (BSC).

##### 1.3 DESIGN REQUIREMENTS

- A. Design-build responsibility: The Contractor is responsible for the engineering and design of the anchorage of all non-structural elements which are not specifically detailed on the Contract documents and for equipment where several manufacturers and/or models have been specified with substitutions allowed. The Contractor is responsible for the redesign of the anchorage of equipment where substitution of equipment requires redesign.
- B. Structural calculations: The Contractor shall retain an engineer to produce design calculations that thoroughly demonstrate the adequacy of the anchorage and of the supporting structure to resist all imposed loads. The calculations shall be sealed by a Civil or Structural Engineer registered to practice in California.
- C. Drawings: All seismic bracing, shall be shown graphically and dimensionally located on the Contractor's submittals for all non-structural elements which are not detailed and located on the Contract drawings.

##### 1.4 SUBMITTALS

- A. Submit in accordance with Section 01010

1. Placement drawings showing the location of each anchor or brace, including proprietary items.
2. Installation and assembly drawings for all braces and anchors.
3. Complete International Code Council Evaluation Service (ICC-ES) reports for proprietary items.
4. Structural calculations sealed by a Civil or Structural Engineer registered in California for seismic anchorage designs produced as part of the Contract.

#### 1.5 CRITERIA FOR DESIGN

- A. All non-structural elements of buildings shall be designed and constructed to withstand all lateral forces (wind and earthquake) in accordance with the latest edition of the California Building Code (CBC) and the following modifications/clarifications to the CBC.
- B. Seismic analyses will utilize the static lateral force procedures of the CBC. When a dynamic analysis is required, the design basis earthquake is specified in *Strong Seismic Ground Motion for Design Purposes at the City of San Jose* for structures with a period of 0.126 seconds or greater and in the 1997 edition of *NEHRP Recommended Provisions for Seismic Regulations for New Buildings and Other Structures* for structures with a period less than 0.126 seconds. The use of roof and/or floor spectra may also be required for the design of the anchorage for non-structural elements.
- C. Utilities bridging between two structures shall be designed to accommodate the simultaneous seismic deflection of the structures away from each other.
- D. Fire protection piping supports and bracing shall be designed to NFPA 13 as adopted by the latest version of the CBC and the California Fire Code.
- E. The allowable deflection of non structural elements or components subjected to the specified wind pressures shall not exceed  $L/240$ , where "L" is the appropriate length or height of the element under consideration.

**PART 2 – PRODUCTS**

NOT USED

**PART 3 – EXECUTION**

NOT USED

**PART 4 – MEASUREMENT AND PAYMENT**

**4.1 GENERAL**

- A. Separate measurement or payment will not be made for work required under this Section. All costs in connection with the work specified herein will be considered to be included with the related item of work in the Schedule of Values, incorporated into the General Conditions or incidental to the Work of this Contract.**

**END OF SECTION 01900**